

PHENIX WEEKLY PLANNING

2/7/2008 Don Lynch



Run 8 Task Schedule

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Item	Start	Finish
RPC support	On Going	On Going
Next scheduled Maint. Day?	2/13	2/13
CM Crane design review	2/1	2/28
Lab Holiday (Presidents Day)	2/18	2/18
Scheduled Maint. Day	2/27	2/27
Mu Trigger FEE Prototype II install	2/27	2/27
Complete new beampipe design	2/29	2/29
End PP run	3/12	3/12
500 GeV Run	3/13	3/14
End of Run 8	3/15	5/27
Install new UPS	~3/15	~3/31
End of Run Party	4/4	4/4
Install Gas house UPS's	4/15	6/13
Install HBD	7/15	9/15



Next Maintenance Access Day: Feb. 13th

Technica Support 2008

- · Field fit CM access ladder hardware
- MuTrigger FEE Prototype II test walkdown (crawldown?)
 (Permit at C-A)
- · Other tasks ?



CM Ladder/Stair Shutdown Access

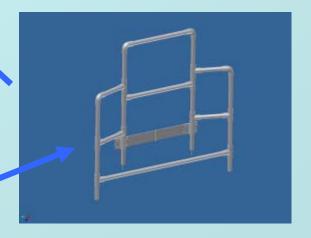






Ladders done

Railing to be ready for next access





2008 PHENIX Shutdown Prep

February-March 2008:

- · Run 8 technical support
- RPC factory support
- · new beam pipe design completion and review
- CM Crane design review and purchase placement
- Muon Trigger FEE prototype test II
- MMN station 1 & 2 scaffolding design and safety review
- Muon Trigger Rack platform design and review
- RPC3 installation review preparation (support structure, transport and installation fixture design, tunnel vapor barrier modification design, gas mixing and distribution system and piping design).
- VTX, FVTX & NCC technical support



RPC Factory Support, cont.

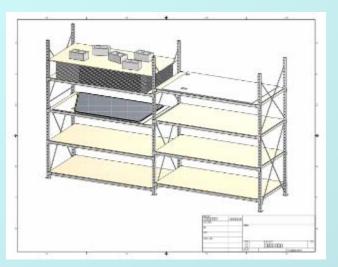
Tent Preparation - Done Approval to flow gas received!!

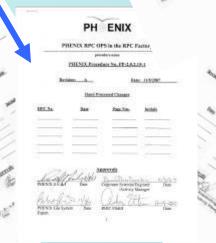
<u>Safety systems</u> - Installation complete, mini-blue sheet done

Equipment Issues - Need specs for 3T (Tilting Transport Table) and GMHOS (gap, module and $\frac{1}{2}$ octant storage) racks, then need to fabricate assemble and install.

<u>Work plan</u> - Revised and submitted for approval. Includes 4 new PHENIX/RPC procedures Need to develop detailed production procedures and update workplan as necessary.

Security - Comply with C-A policy when necessary







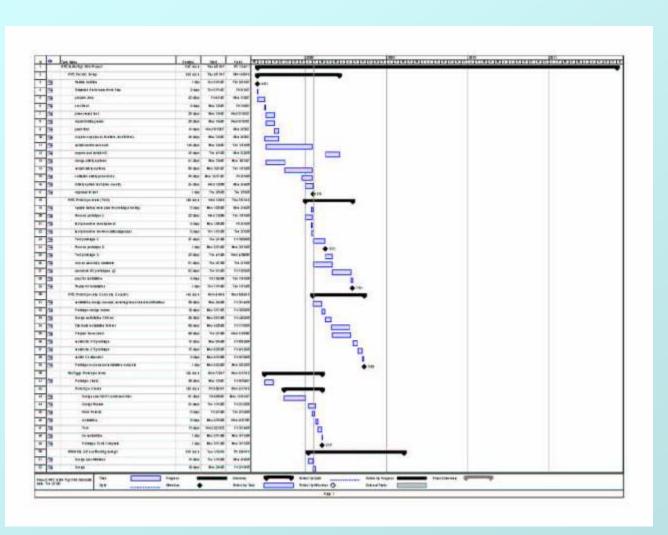
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RPC Factory Issues, cont.



Area to the west of RPC factory is now re-posted and cordoned with yellow tape as a controlled area. A corridor has been left to access the bathroom. Any activities which will need to traverse the posted area (e.g. delivery of materials, equipment etc. through the roll up doors) will require a work permit

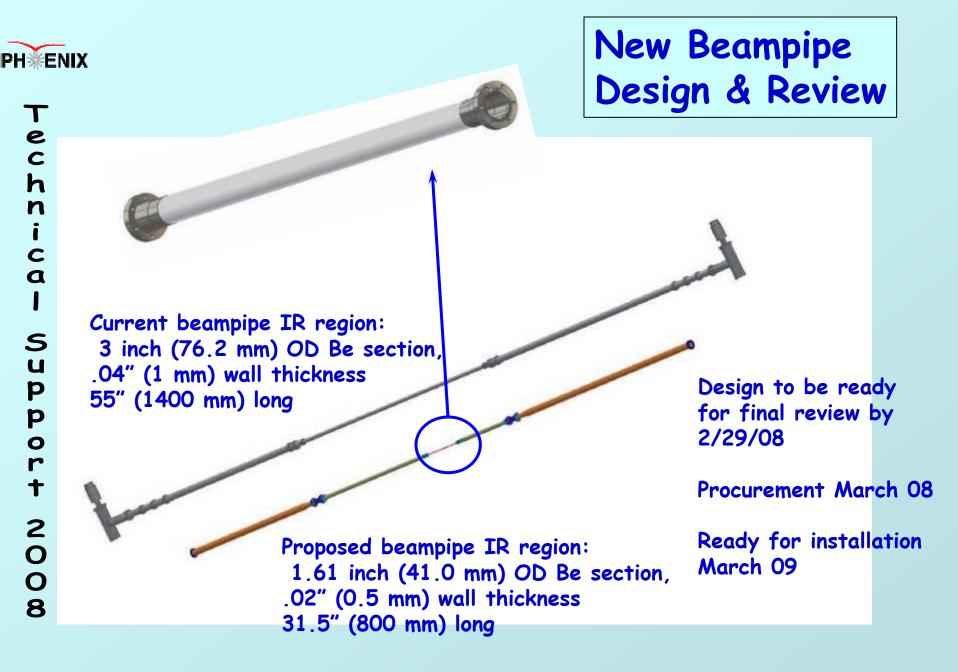
RPC & Mu Trigger FEE Detailed Schedule.



In progress, details next week

33 Major subtasks

227 detailed tasks/milestones





Technical Support 2008

New Beampipe Design & Review

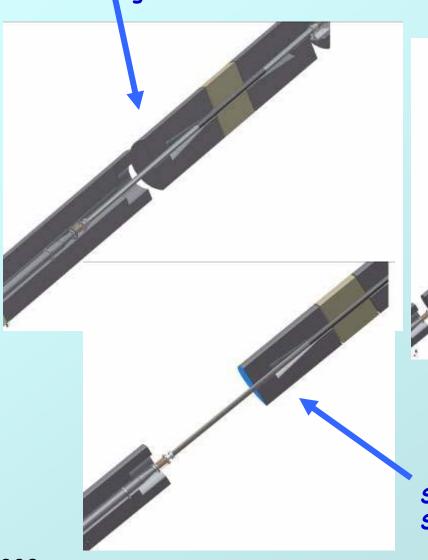




Technical Support 2008

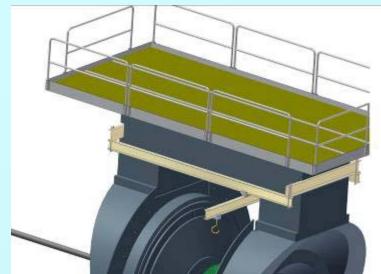
New Beampipe Design & Review

Run Configuration



North Station 1 open (MMS & CM moved South)

South Station 1 open (MMS moved South, CM in run position)



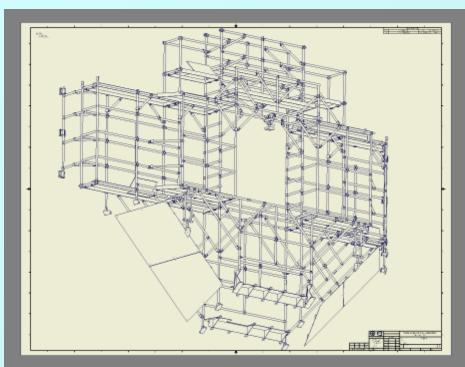
Waiting for design review.

CM Crane

- Uses Gorbel 1-ton capacity Ceiling mounted Bridge Crane, modified to be supported by 2 Steel Channels attached to CM
- Bridge and hoist to be removed for running.
- Crane Design ready for review







MMN Scaffolding

Existing MMN MuTr scaffolding is being redesigned to be assemble-able with only one lampshade removed and access to all station 2&3 FEE's from lower hatch.

Additional scaffolding to be designed to access all Station 1 North FEE's and lampshade sites adjacent to station 1.

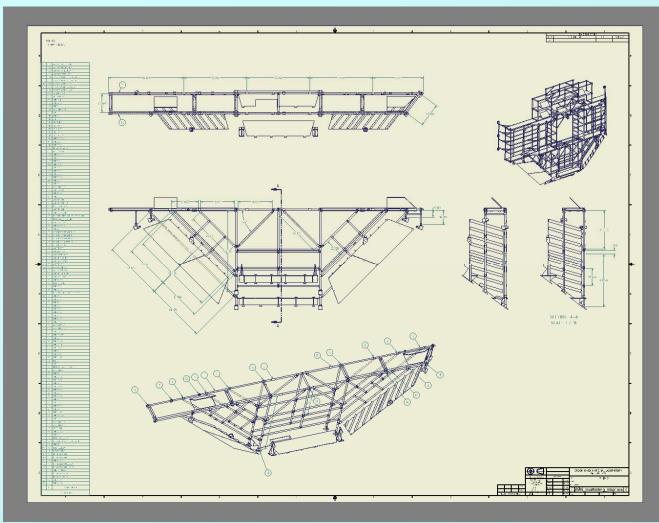
Station 1 North scaffolding to be useable for Station 1 South with minimal modification.

Station 2 & 3 South scaffolding to be addressed later



MMN Scaffolding

Tec h n i a Su P p 0 r t 2008



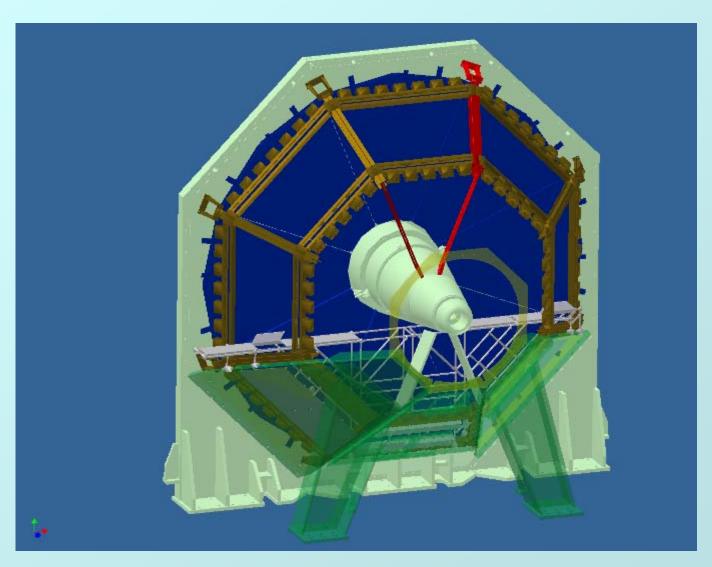
Scaffold to be erected in 5 steps. Each step will have a detailed design drawwing and BOM.

Ready for design review by 2/15

Station 1 scaffolding is next.

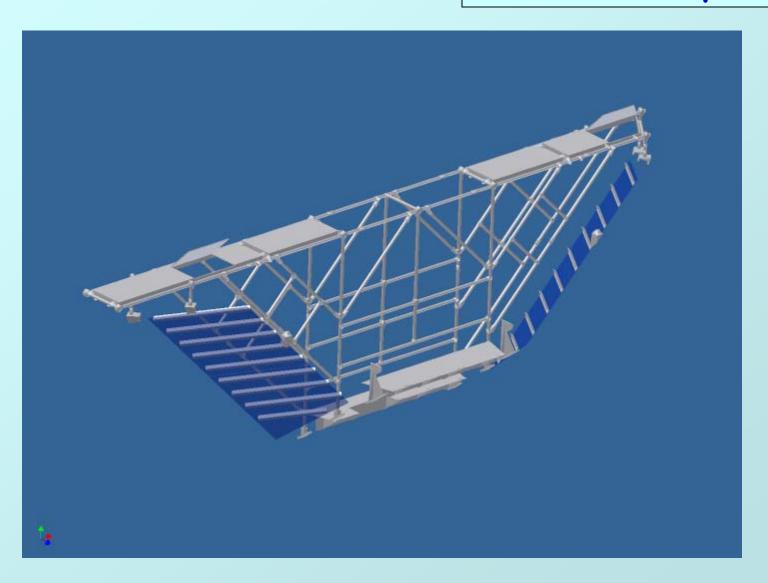


MMN Scaffolding installation steps



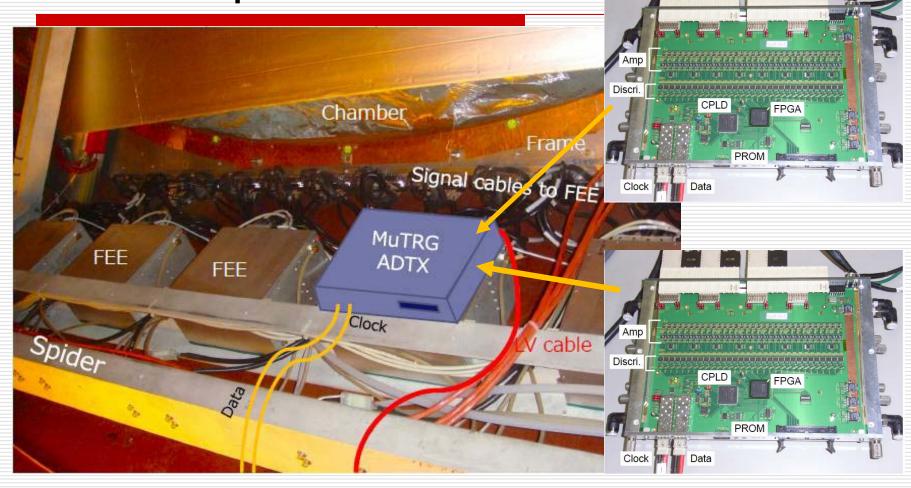


MMN Scaffolding installation steps



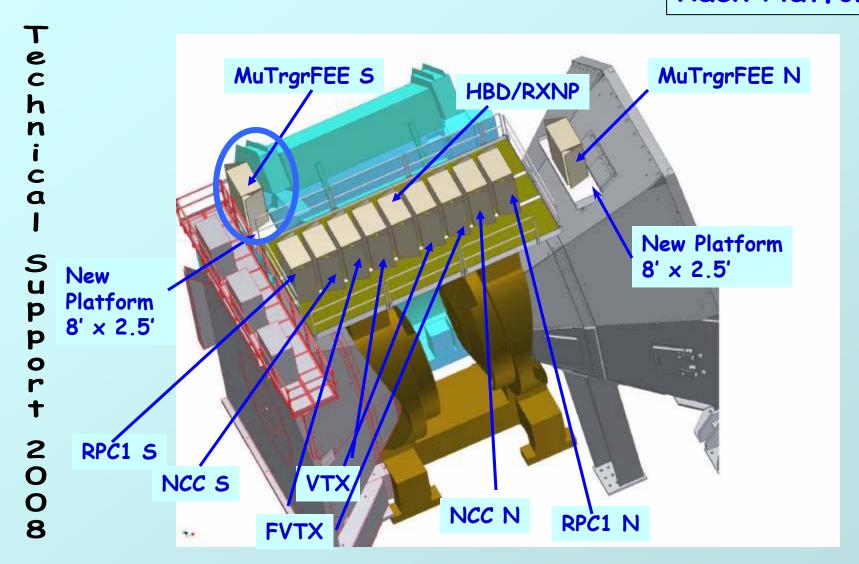
MuTr North, Station-2, Octant 7(bottom)

Same Setup as Summer



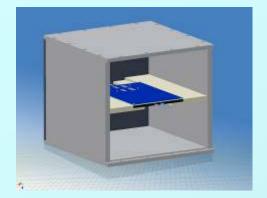


Muon Trigger Rack Platforms



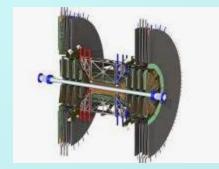
- Mu Trigger FEE Prototype (Informal, currently in process)
- · CM Crane (analyses complete)
- MMN Scaffolding 2/19-2/22
- Station 1 Scaffolding 3/3 3/7
- RPC Prototype 3/17-3/28 (Prototype design, installation, gas system, electronics, safety)
- Mu Trigger FEE N & S 3/17-3/28
- MuTrigger N & S rack platform 4/21-5/2
- RPC Stations 1, 2 and 3 6/22-6/20
- MMS scaffolding 2/2/09-2/6/09

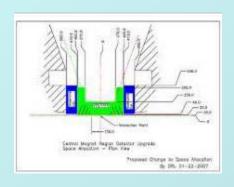
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Other Work

- VTX, FVTX and NCC prototype support
 - Integration
 - · Physical and Rack space
 - · Infrastructure upgrades
- · New Counting House Door
- VTX Prototype for run 8 ?





Safety, Security, Etc.:

Training - good efforts to get up to date. I will update the requirements list next week

Procedures - I will put procedures used in shutdowns on line next week on the engg web site. Look them over the next few weeks to refresh your memory on the various tasks.

Winter is not over yet. Cold & snow coming next week?

Other Issues?

2008 PHENIX Shutdown

PH*ENIX March 2008: Complete Run 8 & MUTrigger FEE Prototype tests, Purge flammable gas, open shield wall. RPC prototype C tests, RPC prototype & Mu Trgr FEE review

<u>April 2008</u>: Disassemble Shield wall, remove collars, disconnect EC & move to AH, set up IR for shutdown. Test assembly of MMN scaffolding (in AH). Install CM access stairs. Prep EC for Shutdown requirements. RPC Installation Fixtures. RPC prototype D tests, MMN & Sta. 1 scaffolding ready, MuTrgr platform reviews,

<u>May 2008</u>: Install CM Crane. Remove N lampshades. MuTr decapacitations in station1 south. Prep work for MuTrgr electronics platforms north & south. Prep work for RPC prototype installation, begin RPC tunnel area prep, erect MMN & Sta 1 scaffolds

<u>June 2008</u>: MuTr decaps, station 1 S & N, PC1 repairs, Inst. station2/3 N scaffolding. RPC tunnel area prep. RPC Design & safety review,

<u>July 2008</u>: Re-Install HBD, RPC prototype gas system, Move shielding for RPC installation, RPC prototype cable routing and support, modify crystal palace and tunnel vapor barrier, fabricate RPC installation fixtures, install MuTrggr N, TBD subsystem maintenance, install MuTrgr N platform

<u>August 2008</u>: Install RPC prototypes, install Mu Trigger FEE's in MMS and MMN, Install N&S rack support platforms for Mu Trigger FEE's. Install MMN cooling water and air supply for MMN. TBD prototype tests, TBD infrastructure work

<u>September</u> 2008: Replace tunnel shielding, connect electronics, gas, water and air as necessary for RPC and Mu Trigger FEE, install Mutrgr S platform, Install MuTrgr N&S racks

October 2008: Prepare for run, EC into IR, install collars, build shield wall, etc.

November 2007: blue sheets, white sheets, close wall, start shifts, flam. Gas, physics 1/31/2008 Weekly Planning Meeting 22



5 Year Plan

Technic	2008	Install stations 1& 2 of MuTr FEE upgrades (north), 1 octant Cu absorber (S), 1 half otants each RPC2/3 S, MMN sta. 2 scaffolding, MuTr Sta 1 N&S scaffolding, 1 octant of MuTrigger FEE upgrades (south, sta 1 & 2), MuTr N stn. 1 & 3 decaps, MuTrigger rack platforms (N&S), CM crane, remove/replace beampipe, infrastructure upgrades & repairs, misc. subsystem work, 1 RPC rack in South tunnel, MuTrgr FEE N & S racks	
ca I Su	2009	Remove HBD & RXNP, scaffolding in MMS, MuTr S stn. 1 & 3 decaps, RPC2 N, RPC3 N, north Cu absorbers, partial VTX, iFVTX, MuTrgr S sta 1 & 2, MuTrgr S rack, 2 racks in N tunnel, infrastructure upgrades & repairs, misc. subsystem work	
P P o	2010	Remainder of VTX barrel, partial FVTX, south Cu absorber completed, MuTrgr FEE stn. 3 S, any remaining MuTr decaps, infrastructure upgrades & repairs, misc. subsystem work	
r t	2011	RPC1 N&S, NCC N, remainder of FVTX, DC West upgrade/repair, remove absorbers, infrastructure upgrades & repairs, misc. subsystem work	
2 0 0	2012	NCC S, upgrades contingency & wishlist, infrastructure upgrades & repairs, misc. subsystem work, TBD new and improved upgrades	
8	* Years refer to the shutdown year and follow the run with the similar number		

(i.e. work in 2008 is to be done in the shutdown that follows run 8, and so on)



Where To Find PHENIX Technical Info









Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:







http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm